

# Mailbox with Lighting Decorative Structure

## BACKGROUND OF THE INVENTION

### 1. Field of the invention

5        The present invention relates to a mailbox with a lighting decorative structure, particularly a mailbox consisted of lighting fixing structures of different shapes and lighting boards of different structures that are combined to make a mailbox with lighting decorative effects.

### 10    2. Description of the Prior Art

         Generally, a mailbox is made of wood or metal and cannot be easily seen by people at night. So the mailbox is often run over by cars. On the other hand, a regular mailbox does not emit light on the address, if there is one, on the mailbox to facilitate identification. That is a shortcoming that needs improvement.

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## SUMMARY OF THE INVENTION

         The primary objective of the invention is to provide a mailbox with a lighting decorative structure, consisting of different lighting structures and different lighting board structures, characterized in that: the lighting board structure consists of one of  
20    the following: (1) lighting board and connecting board 3, (2) fixing plate and membrane, and (3) bottom plate, optical fiber fabric, upper plywood and membrane. The lighting fixing structure consists of one of the following: (1) fixing main unit, upper cover and receptor unit, (2) fixing plate, optical fiber fabric and fixing frame, and (3) fixing main unit, fixing end face and base. The foregoing lighting fixing  
25    structure and lighting board structure is assembled and installed on a top face or side face of a mailbox, creating a lighting effect to the mailbox at nighttime or on cloudy days.

## BRIEF DESCRIPTION OF DRAWINGS

FIG. 1 is a first view of a lighting board structure of the present invention.

FIG. 2 is a side view of a lighting fixing structure of the present invention.

FIG. 3 is a front view of a lighting fixing structure of the present invention.

FIG. 4 is an embodiment view of the present invention.

FIG. 5 is a second view of the lighting board structure of the present invention.

5 FIG. 6 is an assembled view of a lighting fixing structure of the present invention.

FIG. 7 is a perspective view of a fixing frame of the present invention.

FIG. 8 is a front view of the fixing frame of the present invention.

FIG. 9 is a bottom view of the fixing frame of the present invention.

FIG. 10 is a second embodiment view of the present invention.

10 FIG. 11 is a third view of the lighting board structure of the present invention.

FIG. 12 is a perspective, assembled view of the lighting fixing structure of the present invention.

FIG. 13 is a front view of the lighting fixing structure of the present invention.

FIG. 14 is a front view of the lighting fixing structure of the present invention.

15 FIG. 15 is a bottom view of the lighting fixing structure of the present invention.

FIG. 16 is a third embodiment view of the present invention.

FIG. 17 shows the invention in action of the present invention.

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## DETAILED DESCRIPTION OF PREFERRED EMBODIMENTS

The present invention relates to a mailbox with lighting decorative structure, comprising of different types of lighting fixing structures 4 and different lighting board structures 1', as shown in FIGS. 1 to 3. The lighting board structure 1' consists of a lighting board 1 and a connecting board 3 combined together as one unit. A surface of the lighting board 1 has a deep end face 11 with a specified depth. An optical fiber filament 12 is made to suit the shape of the deep end face 11 before the optical fiber filament 12 is inserted thereto. A lower part of the deep end face 11 is connected with a connecting board 3 and a center part is installed with a lighting unit 2. As shown in FIG. 2, the lighting fixing structure 4 consists of a fixing main unit 41 and a top cover 42 and a receptor unit 43. On a top part of the upper cover 42 is installed a round head 421, on a lower part of the receptor unit 43 is installed a receptor head 431. The lighting structure 1' is positioned between the upper cover 42, the receptor unit 43 and the fixing main unit 41, as shown in FIG. 3, lighting structures 1' of different letter fonts are placed inside the lighting fixing structure 4, as shown in FIG. 4 which illustrates an embodiment view of the present invention, wherein the lighting fixing structure 4 is fixed on an upper part of the mailbox, to provide practical use to the product.

As shown in FIGS. 5 to 9, the lighting board 5 is consisted of a bottom plate 52 and a film 51. The film 51 is cut with different letter fonts 53, as shown in FIGS. 6 and 10. The lighting fixing structure 6 consists of a fixing plate 61, an optical fiber fabric 62 and a fixing frame 63, wherein the fixing frame 63 has a specified number of fixing end faces 631. The lighting board 5 is fixed between the fixing frames 63, as shown in FIG. 10 that illustrate a second embodiment of the present invention. The lighting fixing structure 6 is fixed on a side face of the mailbox, while lighting units 64 are installed at two ends thereof, providing a guide light to the optical fiber fabric 62.

Please refer to FIGS. 11 to 16, the lighting board structure 2' consists of an optical fiber fabric 71, a bottom plate 72, an upper plywood 73 and a film 74. The

film 74 has a letter font 76, as shown in FIG. 11. FIG. 12 shows a lighting fixing structure 8. On the fixing main unit 83 is installed a specified number of fixing end faces 81. Between the fixing end faces 81 is inserted a lighting board structure 2'. At a lower part of the lighting fixing structure 8 is provided a specified number of holes  
5 82 serving to accommodate the insertion of the lighting units 85, as shown in FIG. 14, at a lower part of the fixing structure 8 is installed a base 84. FIG. 15 shows a bottom view of the lighting fixing structure 8, wherein the lighting board structure 2' is placed between the fixing end faces 81. FIG. 16 shows a third embodiment of the present invention, wherein the lighting fixing structure 8 is fixed onto an upper end  
10 face of the mailbox, at a lower part of the lighting fixing structure 8 is installed with a number of lighting units 85.

Please refer to FIG. 17, a circuit board 10 is connected to the lighting fixing structures 4, 6, 8, a solar energy board 9 and a battery 11. When power is switched on, the lighting units 2, 64 and 85 are activated to produce light, which in turn enables  
15 the optical fiber filament 12 or optical fiber fabric 62, 72 to produce guide light, thereby the lighting board structures 1', 5 and 2' are capable of producing light.